

Level of Service for Athletic Complex at Beekman Park

RECREATION FACILITY SUPPLY (RFS)

A. Beekman Park – Present Supply

$$EU \times A = RFS$$

Where:

EU = Expected Use (#Visits/Day/Unit)

A=Availability (#Days/Year/Unit)

RFS= Recreation Facility Supply (#Visits Available/Year/Unit)

EU Calculation

Baseball:

$$(18 \times 3) \times 120 \text{ days} = 6,480 \text{ Visits per Year}$$

Soccer:

$$(20 \times 3) \times 70 \text{ days} = 4,200 \text{ Visits per Year}$$

$$\text{Total RFS} = 10,680 \text{ Visits Per Year}$$

RECREATION FACILITY DEMAND (RFD)

Demand Formula:

$$\frac{\text{Recreation Participation}}{=} \times \frac{\text{Participation Frequency}}{\text{Recreation Facility Demand}} \div \text{Sample Size}$$

Where: RP = Recreation Participation (#Participants/Year/Unit)

PF = Participation Frequency (#Visits/Year/Unit)

SS = Sample Size (Total town population))

RFD = Recreation Facility Demand(#Visits Reqr'd /Person/Year/Unit)

$$\text{RFD Formula: } = 350 \times 12 \times 2 / 4,048$$

$$= 2.1 \text{ Visits Required / Person / Year/ Athl. Cmplx}$$

Minimum Population Service Requirement (MPSR)

MPSR Formula:

$$\frac{\text{Recreation Facility Supply}}{=} \div \frac{\text{Recreation Facility Demand}}{\text{Minimum Population Service Requirements}}$$

Where: RFS = 10,680

RFD = 2.1

MPSR Formula:

$$= 10,680 / 2.1$$

$$= 5,086 \text{ People Served Per Year Per Athletic Complex}$$

LEVEL OF SERVICE (LOS) Beekman Park's Ballfields, Parking and Pedestrian
Areas Total 8.7 Acres

Level of Service Formula:

$$\text{Park Acres / Classification} \div (\text{MPSR} / 1000)$$

$$= \text{LOS}$$

$$= 8.7 \div (5,086 / 1,000)$$

$$= 1.7 \text{ Acres} / 1,000 \text{ Population Served}$$